

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) A process ~~Process~~ for operating a climate control system in the passenger compartment of a motor vehicle, ~~wherein~~ comprising:

operating the climate control system ~~can be operated~~ in a recirculation mode in which internal air is recirculated within the passenger compartment or in a fresh air mode in which at least a portion of air supplied to the passenger compartment is fresh air, and wherein

operating the climate control system ~~is normally operated~~ in the recirculation mode, ~~thereby characterized,~~ that wherein

the climate control system (12) is switched into the fresh air mode upon exceeding a predetermined CO₂-threshold value measured in the passenger compartment (2) of the motor vehicle (1).

2. (currently amended) The process ~~Process~~ according to Claim 1, ~~thereby characterized, that wherein~~ in response to the opening of an ashtray (9, 11) located within the passenger compartment (2) of the motor vehicle (1) the climate control (12) is automatically switched into the fresh air mode.

3. (currently amended) The process ~~Process~~ according to Claim 1 ~~or 2~~, ~~thereby characterized, that~~ wherein the climate control system (12) is operated with CO₂ as coolant.
4. (currently amended) The process ~~Process~~ according to Claim 1, ~~2 or 3~~, ~~thereby characterized, that~~ wherein the CO₂-threshold level is set at 800 ppm.
5. (currently amended) The process ~~Process~~ according to Claim 1 ~~one of Claims 1 through 4~~, ~~thereby characterized, that~~ wherein upon switching into the fresh air mode the fresh air is supplied to the foot space (20) of the motor vehicle (1).
6. (currently amended) A climate ~~Climate~~ control system for a motor vehicle, which is switchable between a recirculation mode, ~~in which~~ wherein
 a internal air is recirculated within the passenger compartment of the motor vehicle, and a fresh air mode,
 ~~in which~~ at least a portion of air supplied to the passenger compartment is fresh air, and
 which includes a compressor, an evaporator and a control device, ~~thereby characterized, that~~ wherein at least one CO₂-sensor (26) is provided in the passenger compartment (2) of the motor vehicle (1), which CO₂-sensor (26), upon detecting a CO₂ level exceeding a CO₂-threshold value in the passenger compartment (2) of the motor

vehicle (1), provides a signal to the control device (25) for switching the climate control system (12) from recirculation mode to fresh air mode.

7. (currently amended) The climate ~~Climate~~ control system according to Claim 6, ~~thereby characterized, that wherein~~ the CO₂-sensor (26) is located in the foot space (20) of the motor vehicle (1).
8. (currently amended) The climate ~~Climate~~ control system according to Claim 6 ~~or 7, thereby characterized, that wherein~~ in the inner space (2) of the motor vehicle (1) at least one sensor (27, 28) is provided, with which it can be detected whether smoking is occurring within the passenger compartment (2) of the motor vehicle (1).
9. (currently amended) The climate ~~Climate~~ control system according to Claim 8, ~~thereby characterized, that wherein~~ the at least one sensor (26, 27) is so designed that it detects the opening of an ashtray (9, 11).
10. (currently amended) The climate ~~Climate~~ control system according to Claim 6 ~~one of Claims 6 through 9, thereby characterized, that wherein~~ the control device (25) is in operative association with an adjustment device or actuator (24), which is provided for adjusting a control

element (25) between recirculation mode and fresh air mode.

11. (currently amended) The climate ~~Climate~~ control system according to Claim 6 ~~one of Claims 6 through 10~~, thereby ~~characterized, that~~ wherein CO₂ is provided as coolant for the evaporator (24).
12. (currently amended) The climate ~~Climate~~ control system according to Claim 6 ~~one of Claims 6 through 11~~, thereby ~~characterized, that~~ wherein the evaporator (14) is provided with an expansion valve (29) for switching off of the evaporator (14).
13. (currently amended) The climate ~~Climate~~ control system according to Claim 6 ~~one of Claims 6 through 12~~, thereby ~~characterized, that~~ wherein on the vacuum side the compressor (31) is provided with a valve (33) for switching off of the compressor (31) ~~(14)~~.